

Claim Amendment under 37 CFR 1.121(c)

1. (Currently amended) A real-time service system using an interactive data communication, the system comprising:

5 a plurality of digital set-top boxes of users for replaying service contents selected by the user in real time through a television by being supplied through a telephone line of a very high-data rate digital subscriber line (VDSL), wherein the service contents

10 comprise audio/image signals from the telephone line, wherein the audio/image signals are transmitted to an MPEG data storing block, and wherein the plurality of digital set-top boxes of users further comprise an audio/image switching block for replaying through the

15 television the service contents received from the MPEG data storing block and selected by the users, wherein each of the plurality of the digital set-top boxes comprises a screen generation block for employing an image signal of anyone channel among the plurality of

20 channels of image signals from the audio/video switching block as a main screen and for employing the other channels of the image signals as a subsidiary screen, an OSD synthesizing block for realizing an appropriate graphic OSD on the screen from the screen generation

25 block by comparing a content of an overlay memory of RGB divided in a predetermined ratio with a specific color

key value, a video output block for displaying the image
screen from the OSD synthesizing block to a television
monitor, an audio digital/analog converting block for
converting the audio signals of the active channels to
5 the main screen supplied from the audio/video switching
block, and an audio output block for outputting the sound
from the audio digital/analog converting block to outside
through a television speaker;

a number of system operating device installed by a
10 predetermined region unit and connected to the plurality
of digital set-top boxes of the users in a corresponding
region via a telephone line of the VDSL for supplying the
service contents required at a corresponding set-top box
in real time by the interactive data communication with
15 an arbitrary digital set-top box; and

a service providing device for storing various
service contents received from a contents providing
device and for supplying the corresponding service
contents to a corresponding system operating device in
20 real time in response to a service content request from
the system operating device inputted through the
Internet.

2. (Original) The system of claim 1, wherein the
25 system operating device includes:

a storing block for storing the service contents
supplied from the service providing device;

a media server for receiving the service contents
supplied from the service providing device by connecting
5 to the Internet through a cable or an optical cable and
for temporally storing the same at the storing block and
outputting the same;

a multi-point distribution unit for setting a
plurality of transmission paths for the service contents
10 outputted from the media server and outputting the same;
and

a private branch exchange for transmitting the
service contents from the multi-point distribution unit
to a corresponding digital set-top box through a
15 telephone line.

3. (Original) The system of claim 2, wherein the
media server incorporates therein a function of a voice
over Internet protocol (VOIP) router to implement the
20 VOIP service.

4. (Original) The system of claim 2, wherein the
media server and the multi-point distribution unit are
connected to each other through a communication network.

5. (Original) The system of claim 4, wherein the transmission rate between the media server and the multi-point distribution unit is expressed in gigabits.

5 6. (Original) The system of claim 1, wherein the service providing device includes:

a first storing block for storing contents related to various services;

a streaming server for transmitting the service
10 contents stored at the first storing block to the system operating device through the Internet and for inputting the inputted service contents to the first storing block;

a switching block installed between the first storing block and the streaming server for switching a
15 movement of the service contents between the first storing block and the streaming server;

a web/database server for transmitting the various service contents supplied from the contents providing device through the Internet to the streaming server;

20 a second storing block for storing a subsidiary information of the service content stored at the first storing block; and

a manager personal computer (PC) for implementing search, insert, delete, update and reconstruction for the
25 subsidiary information stored at the second storing block

by sending a data manipulation language (DML) to the
web/database server.

7. (Original) The system of claim 6, wherein the
5 first storing block are separated to a multiple number in
a physical sense, but they are one storing space in a
logical sense and are expandable.

8. (Original) The system of claim 6, wherein the
10 steaming server is at least one.

9. (Original) The system of claim 6, wherein the
subsidiary information stored at the second storing block
is the serial number and position of each service
15 contents, interface information of each service operating
device, interface information of the contents providing
device, charging information and information required for
the operation of the other service providing devices.

20 10. (Previously canceled)

11. (Previously presented) The system of claim 1,
wherein, in the digital set-top box, personal
information, including name, address, the information of
25 credit card, identification (ID) card information, of the

user of a corresponding digital set-top box are
additionally stored in the ROM or are stored at a memory
including a magnetic card, an IC card or hardware or the
like, and a device to access the magnetic card, IC card
5 or hardware or the like is attached to the digital set-
top box to be utilized as the personal information and
security and charging information.